

Fig. 1

Figure 2: Conceptual Schematic (Server Model)

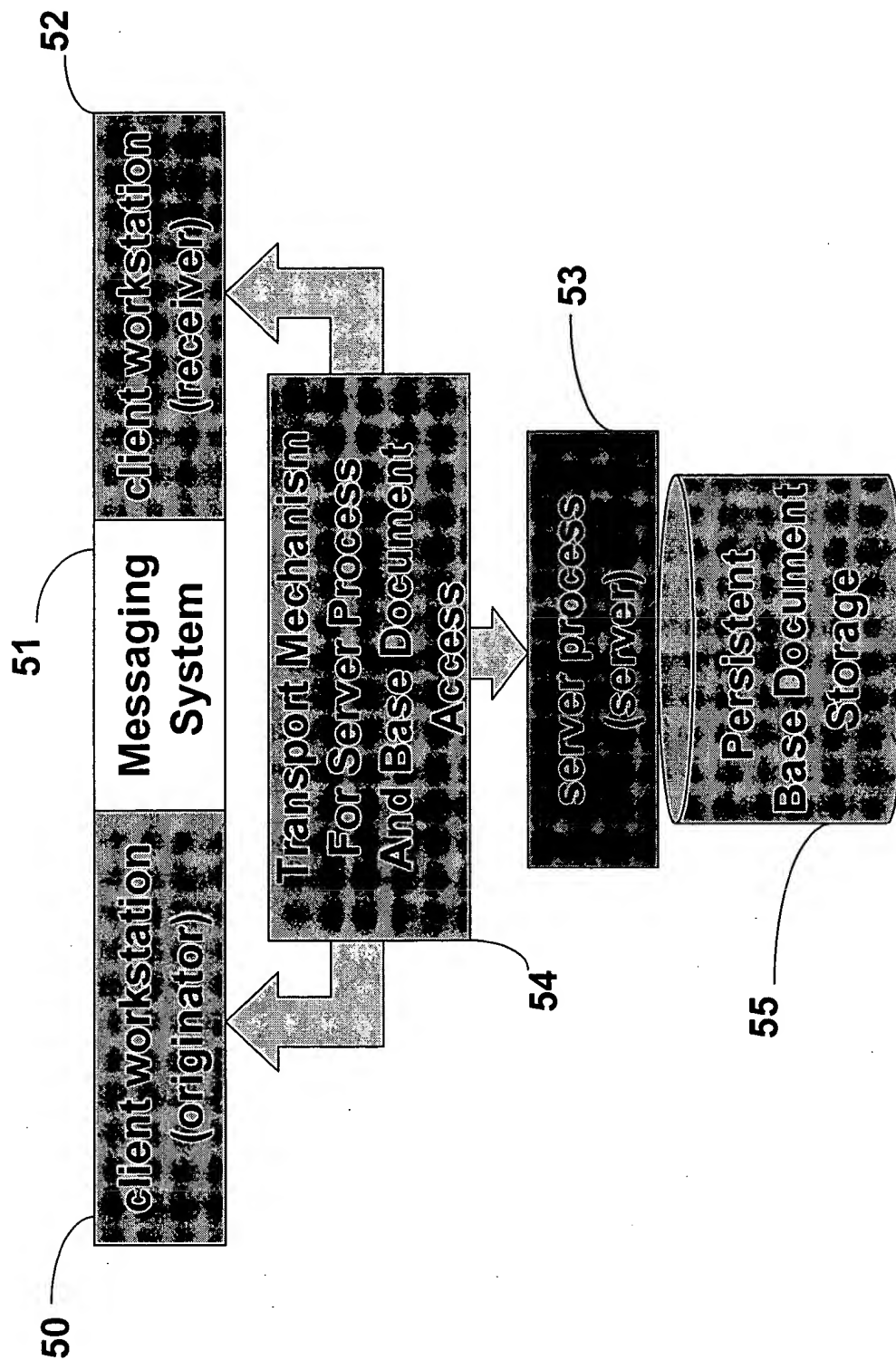


Figure 3: Conceptual Schematic (Peer-to-Peer Model)

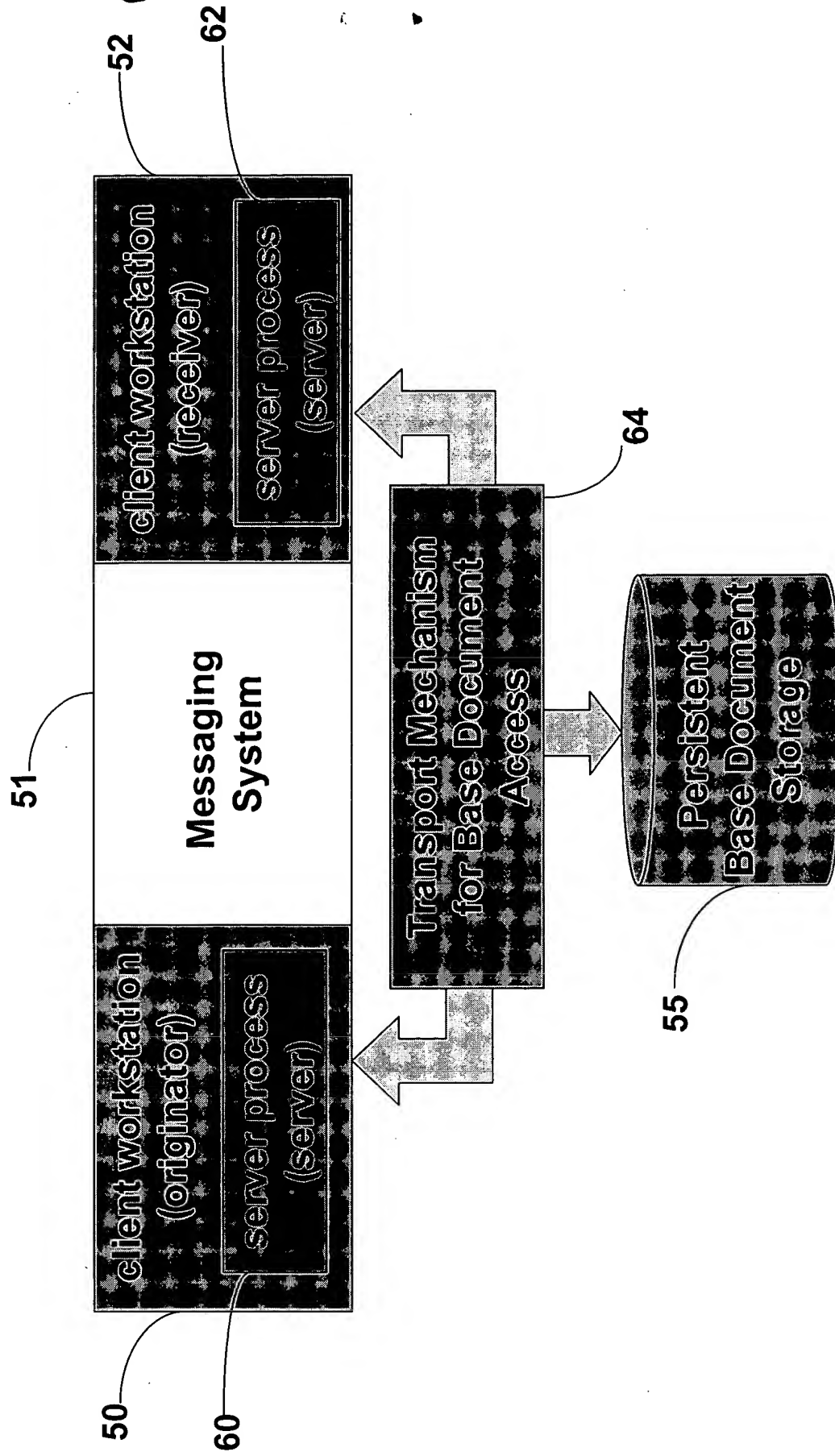


Figure 4: Preferred Embodiment: Block Diagram

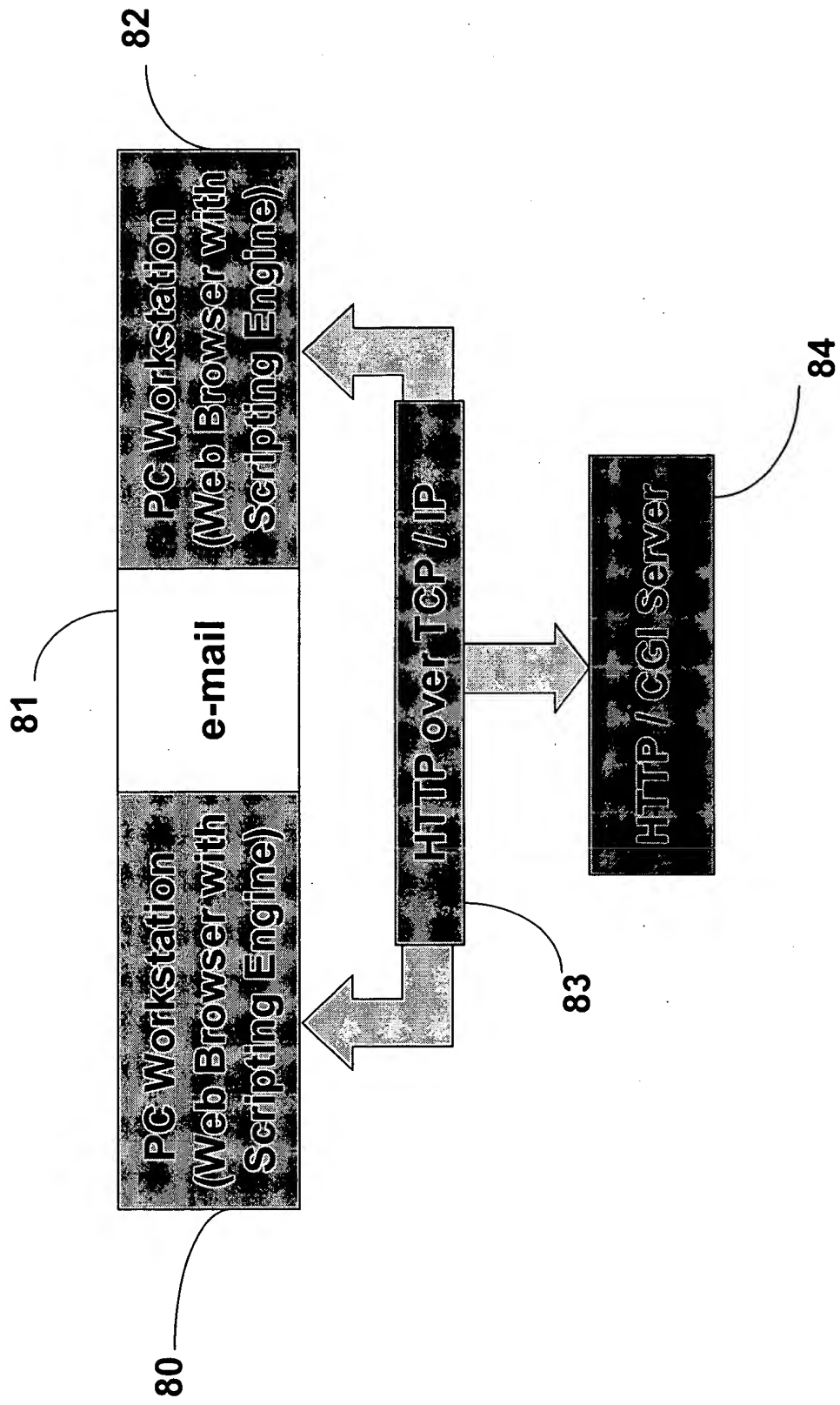


Figure 5: Preferred Embodiment: Collaborative Content
(Represented by URL and XML)

Listing 1: URL Part One -- Document, Zoom Level, and Position

http://localhost/dpr/ds.dpv/00016J/1/123?dpv=bt7dc0dm1dn1do1e0h5i6800j4400k256l0n-2441o-25p1r0s33st0t0t0w7x896xm0xt7y640ym0yt5&DPDB_IDNT=/GIBBS/00016J/1&DPDB_SH=04131

Listing 2: URL Part Two -- Markup Consisting of Circle, Arrow, and Text Box

&_RCR=circle|2140|2542|2565|3248|1&_RAR=arrow|3544|3202|2982|2701|1&_RTX=this%20is%20a%20collaborative%20element|3544|3058|5229|3787|13176|1?1,448

Listing 3: XML -- Document, Zoom Level, and Position + Markup Consisting of Circle, Arrow, and Text Box

<?xml version="1.0" encoding="ISO-8859-1"?>

<!DOCTYPE collaborative-content

PUBLIC "-//Digital Paper, Corp../DTD Collaborative Content 1.0//EN" "http://xml.digitalpaper.com/dtds/web-app_2.2.dtd">

<collaborative-content>

<dp-document >

<docid>00016J</docid>

<zoomlevel>78</dp-zoomlevel>

<xpos>3498</xpos><ypos>2819</ypos>

</dp-document>

<collaborative-elements>

<element-circle name="circle" visible="yes"><ul-point>2140,2542</ul-point><lr-point>2565,3248</lr-point></element-circle>

<element-arrow name="arrow" visible="yes"><ul-point> 3544,3202 </ul-point><lr-point><lr-point></element-arrow>

<element-text name="this is a collaborative element" visible="yes"><ul-point><lr-point> 3544,3202 </ul-point><lr-point> 2982,2701 </lr-point></element-arrow>

</collaborative-elements>

</collaborative-content>

Figure 6: Preferred Embodiment: Client Workstation Screen

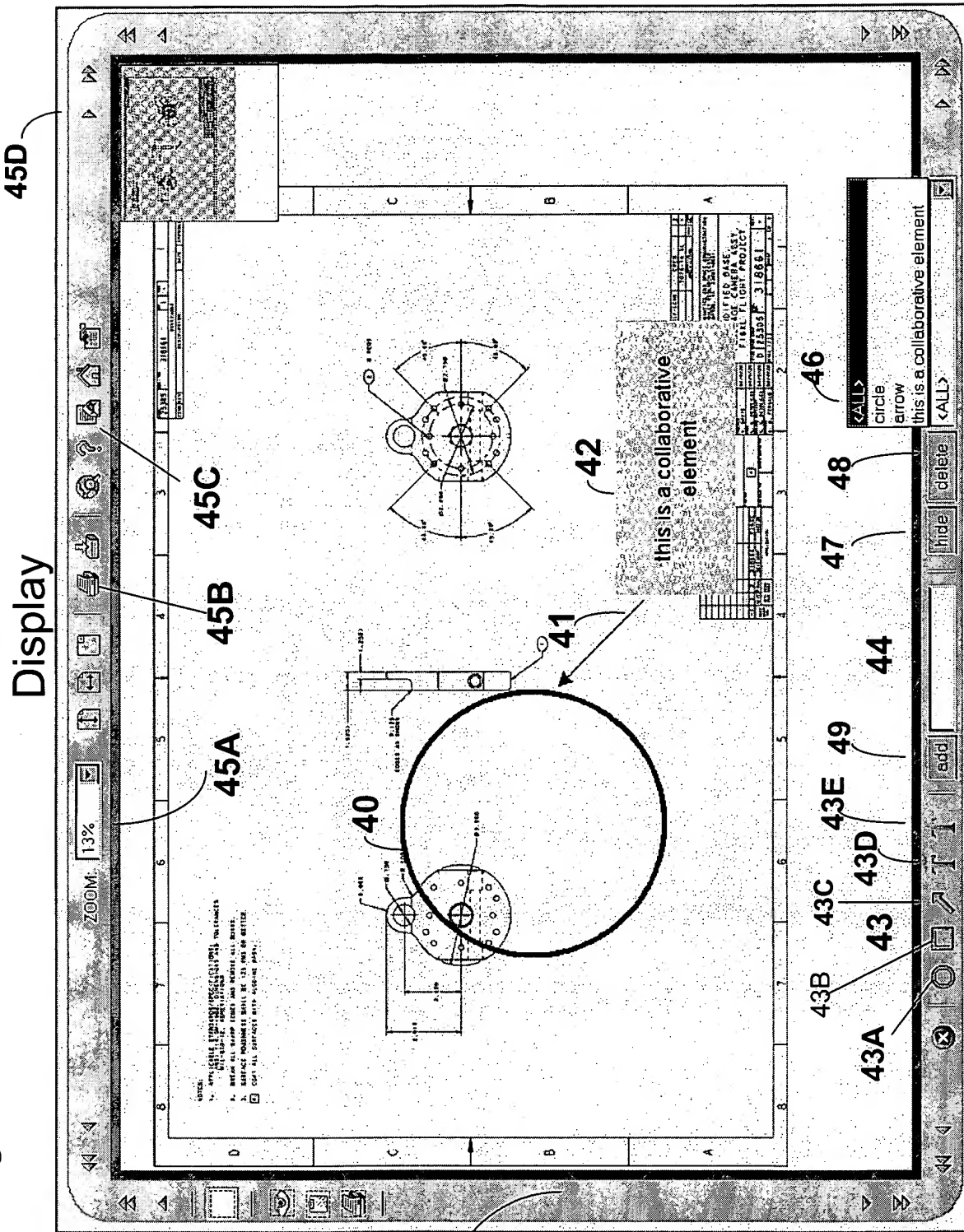


Figure 7: Preferred Embodiment: Flow of Events

